SPECTROSCOPIA MOLECULAR

UN PERIODICO DE NOVAS E INFORMATIONES DE INTERESSE E VALOR AL SPECTROSCOPISTAS

Publicate in interlingua per Forrest F. Cleveland, Professor de Physica, Instituto Technologic de Illinois, Chicago 16. Consiliero linguistic, Dr. A. Gode, Division de Interlingua, Science Service, 80 East 11th St., New York 3. 12 numeros per anno, $2.50. Le periodico depende de receptas financiari ab illes qui beneficia de illo.

CONFERENTIA INTERNATIONAL MARYLAND SUPER LE SPECTROSCOPIA

LE CONFERENTIA International super le Spectroscopia e le "Decime Colloquium Spectroscopicum Internationale" essera tenite ab le 18 al 22 de junio al Universitate Maryland (College Park, Md., S.U.A., proxime a Washington, D. C.). Le conferentia es organisate per le Societate pro le Spectroscopia Applicate con le assistentia de un Consilio Consultative International, e va includer un serie de discursos invitate super importante themas in le spectroscopia, si ben como discursos contribuite que es relationate a iste themas.

J. L. Greenstein parlara super le rolo del spectroscopia in le astrophysica, T. A. Chubb super le radiation ultraviolette e X-radionic extra le atmosphera, H. Kaiser super un revista critic del methodos e resultatos del spectroscopia a tempore resolvite, C. T. J. Alkemade super le spectroscopia de flammas, e A. Walsh super le spectroscopia de absorption atomic.

Factores que influe super le position del frequentias de gruppo in le spectros infrarubie essera discutite per L. Bellamy, problemas interrelationate in le resonantia magnetic nucleari e le spectros molecular per H. H. Gunthard, le formas de lineas e le interactiones molecular per J. H. Jaffe, e studios comparative del frequentias de gruppo Raman e infrarubie e lor applicationes per R. N. Jones.

Le analyse de massa spectrographic de solidos per uso del scintilla de vacuo (A. J. Ahearn), le correlation del spectros de massa con le structura molecular (J. Beynon), resonantia de spin electronic (C. Hutchinson), applicationes del resonantia magnetic nucleari (R. Richards), e le resonantia de spin electronic e le structuras de radicales libere (D. Whiffen) essera le themas del sequente session.

Al session final, B. Vodar describera le spectros ultraviolette remote, D. A. Ramsay le spectros de radicales libere gasose, B. P. Stoicheff le applicationes de maseres optic a studios spectroscopic, e V. E. Coss-

(continuate al p. 70, col. 2)--->

Gemma de Sagessa

OMNE COSA de significantia in nostre vita intellectual e moral comencia con un individuo qui se confronta con su proprie mente e conscientia in un camera solitari.

-- A. SCHLESINGER, JR.
Saturday Evening Post
1 Novembre 1958, p. 70

NOVE LIBROS

• The Fundamental Atomic Constants (Le Constantes Atomic Fundamental). J. H. SANDERS. Oxford University Press, 417 Fifth Avenue, New York 16; 1961. 88 ps. 14 x 22 cm. $1.60.

UN BREVE monographia cuje objectivo es presentar un conto concise del presente stato in re le constantes atomic. Le valores acceptate del constantes atomic e, h, m, N, e c, si ben como quantitates relationate, es derivate ex le resultatos de mesurationes de alte precision. Le experimentos es describite in detalio, e un breve explication del methodo de derivar le melior valores del constantes es date. Le experimentos de annos passate es discutite, e un capitulo es dedicate al mesuration del velocitate de lumine. Es notate que in le lista de "symbolos frequentemente usate" le unitates pro h es erroneemente date como "erg cm", in loco del correcte "erg sec". Le libro es concludite con un discussion de standardes de mesuration, e le tabula de constantes date per Cohen, DuMond, Layton, e Rollett in Revs. Modern Phys. 27 (1955) 363. Le bibliographia include 193 referentias.

• A Theoretical Study of Simple Many - Electron Systems (Un Studio Theoric de Simple Systemas con Plure Electrones). LESTER M. SACHS. Laboratorio National Argonne, 9700 S. Cass Avenue, Argonne, Ill., S.U.A.; 1961. 243 ps. 21 x 28 cm. Reporto de Recerca e Disveloppamento del Commission de Energia Atomic, No. ANL-6310.

UN STUDIO del approximation uni-electronic pro systemas simple con plure electrones. Un revista es date del structura mathematic del approximationes Hartree-Fock, Hartree-Fock irrestringite, e Hartree-Fock irrestringite projectate, le quales pote esser utilisate pro obtener solutiones proximative del equation Schrödinger de systemas con plure electrones. Solutiones, usante iste approximationes, esseva obtenite per le methodo de campo auto-coherente con functiones del typo Slater.

• A Spectrophotometric Atlas of the Spectrum of CH from 3000 to 5000 Å (Un Atlas Spectrophotometric del Spectro de CH ab 3000 a 5000 Å). Bureau National de Standards, Washington, D. C.; 1961. 20 ps.

• Construction of Reliable Internuclear Potential Curves from Equilibrium Bond Lengths and Vibrational Frequencies (Construction de Valide Curvas de Potential Internucleari ex le Equilibrial Longitudes Ligaminic e le Frequentias Vibrational). D. STEELE e E. R. LIPPINCOTT, Depto. de Chimia, Universitate Maryland, College Park, Md., S.U.A.; 1961. 33 ps. 22 x 28 cm. ô

MICROFILMS

DISPONIBILE AB "University Microfilms", 313 N. 1st St., Ann Arbor, Michigan, S.U.A., es:

* Energias rotational vibrational del general molecula polyatomic calculate al 4te ordine de approximation. S. T. KURTZ, Univ. Ohio State, Columbus 10, Ohio, S.U.A. Mic 60-6386. 320 ps.

* Analyse "rovibronic" del spectro de absorption ultraviolette proxime de 1,2-diazina. W. C. TINCHER. Univ. Vanderbilt, Nashville, Tenn., S.U.A. 60-6152. 102 ps.

* Le portiones quadratic e cubic del function de energia potential in le coordinatas valentic pro alicun formas isotope de methano. S. C. WHEELER JR., Univ. Ohio State. Mic 60-6418. 112 ps.

* Vibrationes de inversion e interac-

(continuate al p. 70, col. 2)--->

DICTIONARIO MULTILINGUAL PRO LE SPECTROSCOPIA

Per Cleveland; Bonino, Dupeyrat, Matossi, Morcillo, Stammreich, Wolkenstein; Herzberg, Mulliken; Gode

Parcella 4; pro Parcella 3, vide Spec. Mol. 10(1961)65

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h - Le constante de Planck, 6,62517 x 10^{-27} erg-s.

s - Secunda.

c - Velocitate de lumine in un vacuo, 299,7930 Mm/s.

M - Mega-.

mega- - Un prefixio que significa 10^6.

m - Metro.

I - Momento de inertia.

B - Constante rotational B.

constante rotational A - Le quantitate $h/8\pi^2cI_A$.

- a rotational constant A
- e constante rotacional A
- f constante de rotation A
- g Rotationskonstante A
- i costante rotazionale A
- p constante rotacional A

A - Constante rotational A.

I_A - Pro un rotor symmetric, ille inter le tres momentos principal de inertia que es differente ab le duo que es equal. Pro un rotor asymmetric, le plus micre del tres momentos principal de inertia.

constante rotational C - Le quantitate $h/8\pi^2cI_C$.

- a rotational constant C
- e constante rotacional C
- f constante de rotation C
- g Rotationskonstante C
- i costante rotazionale C
- p constante rotacional C

C - Constante rotational C.

I_C - Le plus grande del tres momentos principal de inertia de un rotor asymmetric.

rotor asymmetric - Un rotor sin symmetria. Un corpore (molecula) cuje tres momentos principal de inertia es differente le unes ab le alteres.

- a asymmetric rotor
- e rotor asimétrico
- f rotateur asymétrique
- g unsymmetrischer Kreisel
- i rotatore asimmetrico
- p rotor assimétrico

rotor symmetric - Un corpore (molecula) duo de cuje tres momentos principal de inertia es equal le un al altere.

- a symmetric rotor
- e rotor simétrico
- f rotateur symétrique
- g symmetrischer Kreisel
- i rotatore simmetrico
- p rotor simétrico

rotor spheric - Un corpore (molecula) cuje tres momentos principal de inertia es equal le unes al alteres.

- a spherical rotor
- e rotor esférico
- f rotateur sphérique
- g Kugelkreisel
- i rotatore sferico
- p rotor esférico

constantes de anharmonicitate - Constantes in le parte vibrational del expression pro le energia de un molecula le quales indica le magnitude del deviationes del vibrationes ab vibrationes harmonic.

- a anharmonicity constants
- e constantes de anarmonicidad
- f constantes d'anharmonicité
- g Anharmonizitätskonstanten
- i costanti di anarmonicità
- p constantes de anharmonicidade

$A\sigma$, $A\vartheta$ - Displaciamento Raman.

---

a = anglese, e = espaniol, f = francese, g = germano, i = italiano, e p = portugese. (Russo va esser includite in le edition final.) ó

CALENDARIO de eventos spectroscopic

• JANUARIO 10-12. Seminario del sudest super le spectroscopia. Universitate Florida. (W. T. Tiffin, Collegio de Ingenieria, Univ. Florida, Gainesville, Fla., S.U.A.)

• JANUARIO 25-26. Association Spectroscopic del West. Asilomar, California. (R. C. Hawes, Corporation Applied Physics, 2724 South Peck Road, Monrovia, California, S.U.A.)

• FEBRUARIO 16-17. Symposio del Soc. Spec. Appl. (Section Intermountain). Idaho Falls. (G. V. Wheeler, Compania Phillips Petroleum, Cassa Postal 2067, Idaho Falls, Idaho, S.U.A.)

• MARTIO 5-9. 13tie conferentia Pittsburgh super le chimia analytic e le spectroscopia. Symposios super studios spectroscopic de polymeros, super le spectroscopia Raman, e super le spectroscopia de vacuo. Hotel Penn-Sheraton. (L. P. Melnich, Corp. U. S. Steel, Monroeville, Pa., S.U.A.)

• MARTIO 28-31. Symposio super le spectroscopia del Instituto de Petroleo. Univ. London. (Secretario General, Instituto de Petroleo, 61 New Cavendish St., London W. 1, Anglaterra.)

• PRIMAVERA. Instituto de resonantia magnetic nucleari. Buffalo. (H. A. Szymanski, Depto. de Chimia, Collegio Canisius, Buffalo 8, New York, S.U.A.)

• APRIL 30-MAIO 3. 13tie symposio annue, Societate pro le Spectroscopia Applicate (Section Chicago). Hotel Conrad-Hilton. (J. S. Ziomek, Depto. de Chimia, Univ. De Paul, 1036 Belden Ave., Chicago 14, Ill., S.U.A.)

• JUNIO 11-15. 17me symposio super le structura molecular e le spectroscopia. Univ. Ohio State. (R. A. Oetjen, Depto. de Physica, Univ. Ohio State, Columbus 10, Ohio.)

• JUNIO 18-22. Conferentia international de spectroscopia. Univ. Maryland. Societate pro le Spectroscopia Applicate. (B. F. Scribner, Bureau National de Standards, Washington 25, D. C., S.U.A.)

• AUGUSTO 21-24. Symposio international super le spectroscopia infrarubie remote. Cincinnati, Ohio. (E. A. Janning, Instituto de Recerca, Univ. Dayton, Dayton 9, Ohio, S.U.A.)

• SEPTEMBRE 10-15. Symposio international super le structura molecular e le spectroscopia. (Symposio international super le structura molecular e le spectroscopia, Consilio de Scientia, Parco Ueno, Tokio, Japon.) ô

MICROFILMS

→ (continuate ab p. 68, col. 2)

tiones de inversion e rotation in le molecula NH_3. W. T. WEEKS, Univ. Michigan, Ann Arbor, Michigan, S.U.A. Mic 60-5949. 147 ps.

* Effectos de temperatura associate con spectros a pression modulate. R. R. PATTY, Univ. Ohio State. Mic 60-6397. 157 ps. ô

CONFERENTIA MARYLAND

→ (continuate ab p. 67, col. 2)

lett e J. Philibert le studios in re le spectros de radios X.

Spectroscopistas qui desira submitter un discurso de 20 minutas debe inviar le titulo, le nomines del autores, e un summario de 250 a 300 parolas, non plus tarde que le 31 de decembre, a Bourdon F. Scribner, Presidente General del Conferentia International 1962 del Spectroscopia, Bureau National de Standards, Washington 25, D. C., S.U.A.

-•-

UN CONFERENTIA international super le physica del radiation ultraviolette de vacuo va esser tenite ab le 16 al 19 de april al Universitate California del Sud. Le programma consistera de discursos invitate. Pro plus informationes, scribe a: G. L. Weissler, University of Southern California, Los Angeles 7, Calif., S.U.A. ô

INDICE DE NOMINES

Adler 4
Ahearn 67
Alkemade 67
Altschuller 63
Anantaramasarma 62
Anderson 4, 39
Andrew 42, 48, 54
Andrews 37
Ashby 12, 18
Asundi 63
Austin 9, 12, 18, 24, 30 36, 42
Averill 17, 22
Avery 10

Badger 51
Bair 55
Baker 39
Bakhshiev 3
Bartels 50
Bartky 5
Barzun 7
Bauer 21, 39
Bauman 44
Baun 10
Bazhulin 50
Beal 56
Behnke 21, 37
Bellamy 57, 67
Bellevue 61
Benedict 61
Benesh 61
Bennett 28
Ben-Reuven 62
Bentley 37
Beynon 67
Bernstein 1, 27
Bierson 63
Birnbaum 61
Birtley 20
Black 49
Blout 2
Bogomolov 3
Bonino 52, 59, 65, 69
Borisevich 3
Bovey 36
Breene 46, 62
Broderson 45
Bronk 61
Brügel 57
Buckingham 62
Buell 4
Bunce 21
Bunke 50
Burch 25

Carls 6, 12
Chan 39
Chubb 67
Chulanovskii 29
Clark 4, 10, 22
Clementi 25
Cleveland 27, 52, 58, 59, 65, 69
Clovlier 63
Coates 37
Coburn 37
Codar 63
Cogeshall 4
Colthup 22, 57
Conley 63
Conn 10
Conway 4
Cook 17
Copeland 28
Cosslett 67
Coulson 5
Cousins 55
Craggs 49
Crawford 13, 24, 30, 36, 42, 48, 56
Cummings 39

Danielli 28
Davis 5, 54, 57, 60
Deford 6, 17
Delhaye 6
Dennison 23
Devlin 36, 42
Dickerman 40
Dixon 32
Djerassi 2
Douglas 25, 44
Dowling 26, 27
Driscoll 42
Duchesne 62
Dupeyrat 59, 65, 69
Durie 5

Eastman 20
Edgell 50
Erley 63
Evans 41

Fassel 6, 12, 18
Fateley 9
Feher 2
Fenton 22
Ferraro 35, 66
Forrette 35
Flubacher 5
Forbes 4, 63
Fordemwalt 5
Forester 2
Fox 6, 12, 18, 24
Friedel 4, 9
Fry 4
Frish 50
Fuchs 35, 36, 42, 48
Fuson 21

Gabriel 49
Galatry 62
Gallaway 22, 27
Gebbie 61
Geppert 50
Gerding 1
Giddings 41
Gilbert 4
Gode 7, 52, 58, 59, 65, 69
Gold 27
Goldstein 25
Gordon 63
Gore 22
Grace 7, 8
Graff 7
Greenstein 67
Gribov 14
Grim 35
Gunthard 2, 16, 67
Gutjahr 50
Guyer 16
Gwinn 25

Hadzi 1, 36
Hamilton 22
Hanes 55
Hansen 41
Harrington 49

INDICE DE NOMINES

Harris 2
Hartmann 1
Hawes 2, 6, 40, 60
Heine 58
Henderson 56
Henry 6
Herman 61
Herzberg 5, 20, 25, 40, 44, 50, 51, 52, 56, 59, 65, 69
Hexter 41
Hiller 11
Hilton 56
Hoffman 50
Holtgreven 16
Howard 15, 37
Howe 5
Hrenoff 4
Hubis 4
Hughes 46
Hull 19
Hulst 16
Hutchinson 35, 67
Hyman 5

Innes 41

Jache 56
Jacquinot 2, 50
Jaffe 18, 24, 30, 36, 42 48, 61, 67
Jakobson 37
James 63
Janning 37, 42, 48, 54, 60
Janz 60, 63
Jenkins 3
Johnson 9, 35, 39, 44,
Jones 9, 21, 22, 57, 67
Johns 22

Kaiser 67
Kaliteevskii 29
Kanda 39
Kaplan 61
Katon 37
Kaye 4
Kemp 4
Kessler 27
Ketelaar 1
Kharkevich 34
Kimel 61
King 13
Kivelson 26, 27
Kirkland 37
Klaboe 35
Koenig 5
Kohin 35
Kondilenko 39
Kovacs 5
Kramer 55
Krim 3
Krushinskii 45
Kurtz 68

Lachman 10
Landsberg 64
Lang 64
Langdon 30
Langseth 1
Lawrence 39
Lawson 21, 40
Laurie 39
Lauzon 36, 42, 48, 54, 63
Lasc 2
Leadbetter 5
Lecomte 57
Legay 5
Lew 5
Lewis 62
Linnett 34
Lippincott 9, 22, 68
Little 63
Livshits 51
Lloyd 22
Lofthus 28
Lord 9, 28, 37
Loewenstein 61
Löwdin 62
Lucier 37
Lyons 24, 30, 36, 42, 48

Maccoll 27
Maisch 60
Mandel'shtam 50
Manson 63
Margenau 62
Margoshes 5
Mariella 63
Martz 60
Matossi 52, 58, 59, 65 69
Mavrodineanu 16
May 5, 63
Mayants 14
Meyerott 61
McClure 2
McConnell 2
McDevitt 10
McLean 8
McNally 4
Migeotte 25, 47
Meijer 61
Meisler 27
Melnich 18, 60, 66
Mel'nikov 28
Merton 15
Mikawa 63
Milazzo 2
Miller 6, 9, 12, 37
Mills 39
Mirumyants 3
Mizushima 43, 62
Monofils 20, 56
Morcillo 15, 52, 59, 65 69
Morgan 22
Morino 43
Morley 13
Morrison 5
Morse 44
Moser 5
Moss 47
Mulliken 25, 39, 44, 47, 52, 59, 65, 69
Munk 2
Murata 9

Narasimham 62
Nehls 63
Nencini 10
Neoporent 3
Nielsen 6, 12, 27, 44

O'Connor 62
Oetjen 18, 24, 30, 36, 48, 54, 60
Olness 39
Olsen 5
Ottenstein 17
Overend 22, 41

Palermitti 35
Palik 22
Paris 51

Passman 47
Patton 22
Patty 70
Pauling 32
Pauluzzi 10
Peacock 50
Philibert 70
Phillips 21
Pimental 1, 45
Piotrowski 35
Pittman 63
Polanyi 2
Polej 60
Potts 22, 44
Prather 64
Prokof'ev 64
Pusey 1

Queiser 4

Raiskii 64
Ramaswamy 44
Ramsey 35, 39, 67
Randall 15
Rank 20, 61
Rao 20
Rea 4
Richards 67
Ritschl 50
Robinson 22, 25, 56
Robert 6, 12, 18, 24, 30 36
Rose 66
Rosen 56
Roualt 27
Rubeska 60
Rubin 6, 12, 24, 33

Sachs 68
Sage 32
Sanders 68
Sandorfy 57
Sands 4
Sathianandan 44
Sawyer 35
Schamp 60
Schatz 62
Schlesinger 67
Schroeder 50
Schubert 50
Schuller 62
Schumacher 16
Schweitzer 43
Scribner 30, 31, 36, 42, 48, 54, 60, 70
Seaborg 31
Seiwert 50
Shaevich 3
Sheppard 1
Shepard 45
Shilton 4
Shipulo 57
Shoolery 44
Shorygin 1, 45
Siegman 4
Silverman 61
Simmons 5
Sitterly 25
Slimson 35
Smick 6, 12, 18, 24
Smith 21, 22, 61, 63
Somerew 10
Sponer 39
Stammreich 1, 45, 52, 59 65, 69
Statts 22
Steele 4, 57, 68
Stewart 25
Stieler 5
Stoicheff 5, 67
Strait 4
Straley 11
Strasheim 50
Striganov 50
Sutherland 44
Sverdlov 14, 51
Szymanski 17, 18, 24, 30 35, 36, 42, 44, 48, 54, 60, 63

Tanaka 41
Terenin 2, 29
Thompson 9
Thyagarajan 26, 62
Tiffin 6, 54, 60,
Tincher 68
Tittle 5
Tobin 3, 35
Townes 2

Van Vleck 62
Varsani 64
Vizesy 64
Vodar 50, 67
Volar 61
Vol'kenshtein 14
Vu-Hai 61
Vuylsteke 16

Wait 62
Wakeling 15
Walsh 67
Weatherly 39
Weeks 70
Weihe 47
Weiss 8
Weissler 70
Welsh 61
Weissman 2
Wenzel 15
Wertburg 63
Wheat 63
Wheeler 21, 66, 68
Whiffen 2, 67
White 35
Wiberley 21
Wiggins 20
Wilkinson 47
Williams 27, 39, 49
Wilmshurst 27
Wilson 1, 4, 26, 27, 32, 49, 51, 57
Wolkenstein 52, 59, 65, 69
Wood 44

Yoshimine 8
Young 3, 35

Zaudel 64
Zijp 1, 6, 12, 18, 24, 30, 48
Ziomek 3, 6, 24, 35, 48 54, 60, 66
Zink 7, 8, 19, 28, 35, 40, 52, 63
Zlatkis 22

INDICE DE FORMULAS

CH_3 32, 52

CS_2 57

CH_3D 12

INDICE DE FORMULAS

CH_3ONO_2 32

CNH 32

CNH_2 32

CH 56

CF 56

CN 56

CN^+ 56

CO 56

CH_2 56

CO_2 56

CH_2O 41

CH_4 35, 56

CHD_3 12

CH_2D_2 12

CH_3CHO 41

CCl_4 57

$CClF_3$ 39

$COCl_2$ 41

COBrCl 41

$COBr_2$ 41

C_2 56

C_2H_2 35, 56

C_2D_2 35

$DCON(CD_3)_2$ 44

C_4H_8O 33

D_2O 20

DF 35

DCl 61

F_2 56

HD 20

HCN 56

HCl 20, 35

HCO 45

HNO 45

HF 35, 56, 61

HCl 61

H_2 8, 20, 56

H_2O 56

$H_2N-C\equiv N$ 57

LiF 45

NH 45

N_2 56

N_2^+ 56

NH_2 45, 55

NO 56

NO^+ 56

NO_2 32, 56

NH_3 56

N_2O 56

N_2O_4 45

O_2 56

O_3 56

OF_2 56

PCl_5 27

XY_2 14

XY_3 14

X_2Y_4 14

INDICE DE MATERIAS

Absorptiometria, neutronic 17

Assembleas 39, 63

Articulos 5, 10

Bibliotheca Central de Spectroscopia 7, 8

Calendario 6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 70

Calibration de spectrometros 57

Congresso europee 1, 45

Conjugation, hybridation, etc. 51

Constantes de distortion rotational 26

Contornos de lineas spectral 61

Curso super le
- chromatographia gasose 17
- infrarubie (Minnesota) 22
- infrarubie (Instituto Technologic de Massachusetts) 9
- infrarubie (Fisk) 21

Conferentia international Maryland 31, 67

Conferentia Jena 50

Conferentia Leningrad 29

Conferentia in re le physica del radiation 70
- ultravioletto de vacuo 70

INDICE DE MATERIAS

Conferentia Rehovoth 62
Conferentia spectroscopic del west 2
Conferentia super le luminescentia 3
Dictionario multilingual pro le spectroscopia 52, 59, 65, 69
Energias de dissociation de H_2, HD, e D_2 20
Fenestra infrarubie 60
Frequentias de gruppo 57
Function de unda electronic 8
Functiones de energia potential de moleculas polyatomic 23
Gemmas de Sagessa 1, 7, 13, 19, 25, 31, 37, 43, 49, 55, 61, 67
Hydrocarburos aromatic polynucleari 9
Infrarubio: mesuration precise de alicun bandas de HCl 20
Instituto infrarubie 21
Instituto super le applicationes industrial del resonantia magnetic nucleari 44
Intensitates infrarubie 51
Intensitates standard pro le infrarubio 57
Intensitates e polarisationes in le spectros vibrational 14
Intensitates vibrational e momentos ligaminic pro methano deuteriate 11, 12
Intensitates in le spectros Raman 1
Interaction configurational in H_2 8
Microcella infrarubie 60
Microfilms 5, 35, 68
Momentos magnetic rotational 32
Nove frontieras 15
Nove jornales 28, 47
Nove libros 4, 10, 16, 28, 34, 40, 46, 58, 64 68
Optica applicate 15
Revistas 5, 60
Rotation libere 51
Seminario super le spectroscopia de absorption 66
Spectro rotational de cyanamido 57
Spectrometro infrarubie 18
Spectros electronic 1
infrarubie 9, 21, 56
microundic 1, 32
regularitates empiric in 15
Raman e infrarubie 1
ultraviolette 1
ultraviolette remote 56
vibrational rotational 1, 41
Spectroscopia a tempore resolvite 49
applicate 63
de reactiones chimic rapide 55
de hydrocarburos 54
Structura de OF_2 56
Symposio
Chicago 18, 35
de spectroscopia infrarubie remote 37
international Tokio 43
Ohio State 25, 44
spectroscopic in le Ural 3
Theoria perturbational vibrational 38
Titulos spectroscopic 19
Vibrationes de gruppo 13

MONOGRAPHIAS

LE SEQUENTE monographias es disponibile ab le Departimento de Physica, Instituto Technologic de Illinois, Chicago 16, Illinois, S. U. A.:

• Spectros Molecular. I. Regulas de Selection pro Spectros Vibrational de Moleculas Polyatomic. Per Forrest F. Cleveland. Ps. 21, $0.75.

• Spectros Molecular. II. Tractamentos del Coordinatas Normal de Moleculas Polyatomic. A. Theoria General. Per Salvador M. Ferigle e Alfons Weber. Ps. 27, $1.00.

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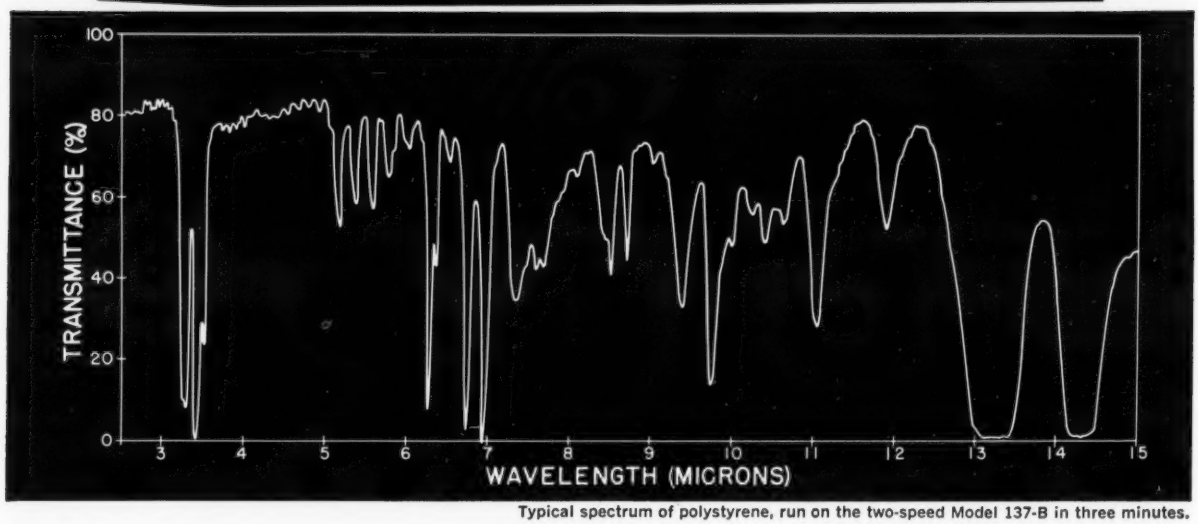

Typical spectrum of polystyrene, run on the two-speed Model 137-B in three minutes.

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